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(57) Abstract :

The present invention relates to a design based concrete slab molding system comprising, a housing 6 segregated into a first, second and third sections, where the housing 6 is configured with a conveyor unit 8, a robotic arm 11 assembled in the housing 6 for translating the assembly 9 towards the sections, a dispensing unit 2 coupled with an applicator for coating kerosene over internal surfaces of a mold assembly 9, an array of containers 3 arranged in the second portion for storing dilute concrete solution, a motorized levelling panel 4 attached in the third section for translating the panel 4 over the mixture for levelling the mixture, an electromagnetic clamp 5 attached for operating a hinge and closing the mold assembly 9 and an autoclaving module 7 for baking under elevated temperature and high pressure conditions maintained inside the module 7 for fabricating a concrete slab.

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